

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A portable information device comprising:

initialization data transmitting means for transmitting initialization data to an access point connected to a home network networking low-speed home appliances and high-speed devices through a bridging element;

response data receiving means for receiving response data responsive to said initialization data from said access point; and

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operational information transmitting means for transmitting information used to operate a home appliance or device connected to said home network after said response data receiving means receives said response data.

2. (Currently Amended) A portable information device according to Claim 1, wherein said operational information transmitting means transmits identity information used to identify the home appliance.

3. (Currently Amended) An access device connected to a home network and serving as an access point to permit an access to said home network from a portable information device, comprising:

a network interface for accessing-providing access to a home network of low-speed home appliances and high-speed devices integrated with a bridging element, said network interface

operating to communicate with each of said low-speed home appliances and high-speed devices;

a portable information device interface for communicating with said portable information device; and

control means for ~~doing a negotiation~~ negotiating with said portable information device via said portable information device interface,

wherein data can be whereby data are transmitted between said portable information device and each of said low-speed home appliances and high-speed devices through said portable information device interface and said network interface after the negotiation by the control means.

4. (Currently Amended) An access device according to Claim 3, wherein said control means ~~determine whether~~

validates the data received from said portable information device ~~are valid and~~,
~~determines further determine, when the data are valid, whether the data are includes an~~
initialization packet, ~~followed by after the data is validated,~~

builds creation of a new initialization packet when the data ~~are is determined to include~~
an initialization packet, and

outputs outputting of the new initialization packet to said portable information device interface.

5. (Original) An access device according to Claim 3, wherein said control means analyzes data received from said portable information device and delivers the data to said network interface after a protocol conversion.

6. (Currently Amended) An access ~~devie~~device according to Claim 3, wherein said control means determines whether data received from said network interface ~~are-is~~ valid for accessing said portable information device, ~~creating~~builds a transfer packet, and ~~outputs~~ outputting the transfer packet to said portable information device interface when the data ~~are-is~~ determined to be valid.

7. (Currently Amended) A home network system comprising;
a home network for networking a plurality of low-speed home appliances and high-speed devices through a bridging element;
a portable information device connectable to said home network in a wireless manner;
and
an access point for reciprocal data communication between said home appliances and devices connected to said home network and said portable information device,
wherein said portable information device ~~does~~performs negotiation to be served by with said access point to gain access to said home network.

8. (Currently Amended) A home network system according to Claim 7, wherein said portable information device transmits to said access point the data used to select a home appliance or device from among a plurality of said home appliances and devices after said negotiation.

9. (Currently Amended) A method for accessing a home network ~~networking a plurality of home appliances~~, comprising:

receiving from a portable wireless information device a request for accessing said home network networking a plurality of low-speed home appliances and high-speed devices through a bridging element;

recognizing, upon receipt of the request for access, an address for designating a low-speed home appliance or high-speed device with which said portable wireless information device will communicate; and

enabling exchange of data between the low-speed home appliance or high-speed device designated by recognized said address and said portable wireless information device.

10. (Currently Amended) A method for accessing a home network ~~networking a plurality of home appliances~~, comprising:

transmitting a request for accessing said home network to an access point connected to said home network networking a plurality of low-speed home appliances and high-speed devices through a bridging element;

transmitting address information used to designate a home appliance or device included in said home network after transmitting the request for access; and

transmitting operational information used to operate said home appliance or device after transmitting said address information.